

**EAST Search History****EAST Search History (Prior Art)**

| Ref # | Hits | Search Query   | DBs   | Default Operator | Plurals | Time Stamp          |
|-------|------|--|---|------------------|---------|---------------------|
| L1    | 2    | ("20080150891").PN.  | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | OFF     | 2010/09/12<br>18:58 |
| L2    | 2    | 10/811,310   | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2010/09/12<br>18:59 |
| L3    | 20   | (Berkley near2 Jeffrey)<br>(Kim near2 Seahak)<br>(Hong near2 Sungkwan)   | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2010/09/12<br>19:00 |
| L4    | 15   | brak\$3 with lock\$3 with<br>(shutdown powerdown<br>turnoff ((shut\$4 power\$3<br>turn\$3) adj (down off)))<br>with (cable pulley)                                     | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2010/09/12<br>19:32 |
| L5    | 1    | ("345"/\$).ccls. and (brak<br>\$3 same lock\$3 same<br>(shutdown powerdown<br>turnoff ((shut\$4 power\$3<br>turn\$3) adj (down off)))<br>same (cable pulley<br>motor)) | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2010/09/12<br>19:32 |
| L6    | 1    | (haptic) and (brak\$3<br>same lock\$3 same<br>(shutdown powerdown<br>turnoff ((shut\$4 power\$3<br>turn\$3) adj (down off)))<br>same (cable pulley<br>motor))          | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2010/09/12<br>19:32 |
| L7    | 38   | (haptic) and ((brak\$3 lock<br>\$3) same (shutdown<br>powerdown turnoff ((shut<br>\$4 power\$3 turn\$3) adj<br>(down off))) same (cable<br>pulley motor))              | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2010/09/12<br>19:32 |

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| L8  | 2   | spidar and pulley and motor and encod\$3 and (cable tension)   | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON  | 2010/09/12 19:32 |
| L9  | 8   | ("7404716").PN.  | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2010/09/12 19:32 |
| L10 | 953 | (dc adj motor) and (motor with (brak\$3 lock \$3) with (shutdown shutoff powerdown poweroff ((shut\$4 power \$4 turn\$4 remov\$3) near2 (off down current voltage))))  | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON  | 2010/09/12 19:32 |
| L15 | 297 | ("20010002126"   "20020030663"   "20020033795"   "20020054060"   "20020072814"   "20020097223"   "20020109668"   "20020128048"   "20020142701"   "20020177471"   "20030025679"   "20030030619"   "20030038776"   "20040233161"   "3226846"   "3520060"   "3662076"   "3775865"   "3863098"   "3890958"   "3919691"   "4052981"   "4148014"   "4321047"   "4360345"   "4391282"   "4439162"   "4444205"   "4459113"   "4571834"   "4575297"   "4611998"   "4638798"   "4642055"   "4664130"   "4685464"   "4726772"   "4750487"   "4771344"   "4773865"   "4789340"   "4791934"   "4825872"   "4907973"   "5022407"   "5047942"   "5047952"   "5050608"   "5086401"   "5112228"   "5121747"   "5131844"   "5137458"   "5149270"   "5186629"   "5186695" | US-PGPUB; USPAT; USOCR                                   | OR | ON  | 2010/09/12 19:32 |

|                         |  |  |  |  |  |  |  |
|-------------------------|--|--|--|--|--|--|--|
| "5205289"   "5217003"   |  |  |  |  |  |  |  |
| "5230623"   "5251127"   |  |  |  |  |  |  |  |
| "5273038"   "5275174"   |  |  |  |  |  |  |  |
| "5280265"   "5290276"   |  |  |  |  |  |  |  |
| "5295694"   "5320537"   |  |  |  |  |  |  |  |
| "5333106"   "5334017"   |  |  |  |  |  |  |  |
| "5338198"   "5339723"   |  |  |  |  |  |  |  |
| "5351692"   "5368487"   |  |  |  |  |  |  |  |
| "5376007"   "5385474"   |  |  |  |  |  |  |  |
| "5389849"   "5391081"   |  |  |  |  |  |  |  |
| "5396895"   "5397323"   |  |  |  |  |  |  |  |
| "5403191"   "5403192"   |  |  |  |  |  |  |  |
| "5417210"   "5429140"   |  |  |  |  |  |  |  |
| "5436542"   "5438529"   |  |  |  |  |  |  |  |
| "5445166"   "5451924"   |  |  |  |  |  |  |  |
| "5454722"   "5456341"   |  |  |  |  |  |  |  |
| "5459382"   "5461711"   |  |  |  |  |  |  |  |
| "5466213"   "5467763"   |  |  |  |  |  |  |  |
| "5480307"   "5482472"   |  |  |  |  |  |  |  |
| "5483961"   "5509810"   |  |  |  |  |  |  |  |
| "5510832"   "5513992"   |  |  |  |  |  |  |  |
| "5518406"   "5546943"   |  |  |  |  |  |  |  |
| "5576727"   "5592401"   |  |  |  |  |  |  |  |
| "5593306"   "5598269"   |  |  |  |  |  |  |  |
| "5609485"   "5609560"   |  |  |  |  |  |  |  |
| "5623582"   "5628230"   |  |  |  |  |  |  |  |
| "5629594"   "5667517"   |  |  |  |  |  |  |  |
| "5669818"   "5676157"   |  |  |  |  |  |  |  |
| "5691898"   "5701140"   |  |  |  |  |  |  |  |
| "5704791"   "5709219"   |  |  |  |  |  |  |  |
| "5711746"   "5720742"   |  |  |  |  |  |  |  |
| "5721566"   "5722836"). |  |  |  |  |  |  |  |
| PN. OR ("5724264"       |  |  |  |  |  |  |  |
| "5731804"   "5734373"   |  |  |  |  |  |  |  |
| "5739811"   "5742278"   |  |  |  |  |  |  |  |
| "5755577"   "5766016"   |  |  |  |  |  |  |  |
| "5767839"   "5769640"   |  |  |  |  |  |  |  |
| "5779209"   "5791908"   |  |  |  |  |  |  |  |
| "5800177"   "5800178"   |  |  |  |  |  |  |  |
| "5800179"   "5805140"   |  |  |  |  |  |  |  |
| "5808665"   "5817107"   |  |  |  |  |  |  |  |
| "5821920"   "5825308"   |  |  |  |  |  |  |  |
| "5828197"   "5841423"   |  |  |  |  |  |  |  |
| "5853292"   "5855583"   |  |  |  |  |  |  |  |
| "5857986"   "5871017"   |  |  |  |  |  |  |  |
| "5873731"   "5873732"   |  |  |  |  |  |  |  |
| "5880714"   "5882206"   |  |  |  |  |  |  |  |
| "5882207"   "5889670"   |  |  |  |  |  |  |  |
| "5907487"   "5909380"   |  |  |  |  |  |  |  |
| "5928138"   "5929607"   |  |  |  |  |  |  |  |
| "5929846"   "5930741"   |  |  |  |  |  |  |  |
| "5945056"   "5950629"   |  |  |  |  |  |  |  |
| "5951301"   "5952806"   |  |  |  |  |  |  |  |
| "5954692"   "5956484"   |  |  |  |  |  |  |  |
| "5957694"   "5959613"   |  |  |  |  |  |  |  |
| "5967790"   "5967980"   |  |  |  |  |  |  |  |
| "5971767"   "5971976"   |  |  |  |  |  |  |  |

|                   |             |
|-------------------|-------------|
| "5973678"         | "5999168"   |
| "6001014"         | "6006127"   |
| "6007342"         | "6020875"   |
| "6020876"         | "6024576"   |
| "6028593"         | "6037927"   |
| "6038488"         | "6042555"   |
| "6046726"         | "6046727"   |
| "6050718"         | "6050962"   |
| "6057828"         | "6059506"   |
| "6061004"         | "6062865"   |
| "6067077"         | "6074213"   |
| "6077082"         | "6078308"   |
| "6078876"         | "6086528"   |
| "6088017"         | "6088019"   |
| "6088020"         | "6100874"   |
| "6101530"         | "6104158"   |
| "6104379"         | "6104382"   |
| "6106301"         | "6110130"   |
| "6111577"         | "6113395"   |
| "6125337"         | "6125385"   |
| "6126450"         | "6128006"   |
| "6131097"         | "6134506"   |
| "6147674"         | "6148280"   |
| "6154198"         | "6154201"   |
| "6161126"         | "6162190"   |
| "6166723"         | "6169540"   |
| "6184868"         | "6191774"   |
| "6193519"         | "6193653"   |
| "6195592"         | "6211861"   |
| "6215470"         | "6216059"   |
| "6219032"         | "6219034"   |
| "6223100"         | "6232891"   |
| "6243078"         | "6246390"   |
| "6252579"         | "6252583"   |
| "6256011"         | "6271828"   |
| "6271833"         | "6275213"   |
| "6278439"         | "6283859"   |
| "6285351"         | "6288705"). |
| PN. OR ("6292170" |             |
| "6292174"         | "6300936"   |
| "6300937"         | "6300938"   |
| "6310605"         | "6317116"   |
| "6323837"         | "6348911"   |
| "6353427"         | "6366272"   |
| "6374255"         | "6375471"   |
| "6377011"         | "6411276"   |
| "6413229"         | "6424333"   |
| "6424356"         | "6428490"   |
| "6429846"         | "6448977"   |
| "6469692"         | "6469695"   |
| "6486872"         | "6525711"   |
| "6620174"         | "6636197"   |
| "6639581"         | "6654000"   |
| "6686901"         | "6686911"   |
| "6693626"         | "6697043"   |
| "6697044"         | "6697748"   |
| "6704001"         | "6705871"   |

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|-----|------|---|---|----|----|---------------------|
|     |      | "6707443"   "6717573"  <br>"6758843"   "6859819"  <br>"6876891"   "6894678"  <br>"6939138"   "7056123"  <br>"D233238"   "D272833"  <br>"D392878").PN. OR<br>("7404716").URPN.   |   |    |    |                     |
| L16 | 205  | L15 and (cable string<br>wire)  | US-PGPUB;<br>USPAT; USOCR   | OR | ON | 2010/09/12<br>19:32 |
| L17 | 46   | L15 and ((cable string<br>wire) near5 (tension<br>force))   | US-PGPUB;<br>USPAT; USOCR   | OR | ON | 2010/09/12<br>19:32 |
| L18 | 1    | ((cable wire string) with<br>haptic) and (dc adj<br>motor) and (motor with<br>(brak\$3 lock\$3) with<br>(shutdown shutoff<br>powerdown poweroff<br>((shut\$4 power\$4 turn\$4<br>remov\$3) near2 (off<br>down current voltage)))) | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2010/09/12<br>19:32 |
| L19 | 60   | ((cable wir\$3 string rop<br>\$3) with haptic) and<br>(motor with (brak\$3 lock<br>\$3))  | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2010/09/12<br>19:32 |
| L20 | 44   | ((cable wir\$3 string rop<br>\$3) with haptic) and<br>(motor with (brak\$3 lock<br>\$3) with (power\$4 us<br>\$3))  | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2010/09/12<br>19:32 |
| L21 | 3    | ((cable wir\$3 string rop<br>\$3) with haptic) and<br>((lock\$3 prevent\$3 stop<br>\$4 brak\$4) with (spool<br>pulley) with (off inactiv\$3<br>((shut\$4 power\$3 turn<br>\$3) near2 (off down<br>remov\$3))))                    | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2010/09/12<br>19:32 |
| L22 | 7079 | ((lock\$3 prevent\$3 stop<br>\$4 brak\$4) with (spool<br>pulley) with (off inactiv\$3<br>((shut\$4 power\$3 turn<br>\$3) near2 (off down<br>remov\$3))))  | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2010/09/12<br>19:32 |

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| L23 | 10  | haptic and ((lock\$3 prevent\$3 stop\$4 brak\$4) with (spool pulley) with (off inactiv\$3 ((shut\$4 power\$3 turn\$3) near2 (off down remov\$3)))) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON  | 2010/09/12 19:32 |
| L24 | 330 | ((lock\$3 prevent\$3 stop\$4 brak\$4) near5 (spool pulley)) near10 ((shut\$4 power\$3 turn\$3) near2 (off down remov\$3))                          | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON  | 2010/09/12 19:32 |
| L25 | 2   | L24 and (haptic (force adj feedback))  | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON  | 2010/09/12 19:32 |
| L26 | 2   | ("20090308676").PN.  | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2010/09/12 19:32 |
| L27 | 0   | (lock\$3 near5 (spool pulley)) near10 (prevent\$3 maintain\$3) near10 (wear tear damage) near10 (inactive ("not" near2 us\$3))                     | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON  | 2010/09/12 19:32 |
| L28 | 0   | (lock\$3 near5 (spool pulley)) near10 (prevent\$3 maintain\$3) near10 (wear\$3 tear\$3 damag\$3) near10 (inactive ("not" near2 us\$3))             | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON  | 2010/09/12 19:32 |
| L29 | 0   | (lock\$3 near5 (spool pulley)) with (prevent\$3 maintain\$3) with (wear\$3 tear\$3 damag\$3) with (inactive ("not" near2 us\$3))                   | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON  | 2010/09/12 19:32 |
| L30 | 3   | (lock\$3 near5 (spool pulley)) same (prevent\$3 maintain\$3) same (wear\$3 tear\$3 damag\$3) same (inactive ("not" near2 us\$3))                   | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON  | 2010/09/12 19:32 |

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| L31 | 302 | brak\$3 with lock\$3 with (shutdown powerdown turnoff ((shut\$4 power\$3 turn\$3) adj (down off))) with (motor cable pulley)   | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/09/12 19:32 |
| L32 | 0   | brak\$3 with lock\$3 with (shutdown powerdown turnoff ((shut\$4 power\$3 turn\$3) adj (down off))) with (motor cable pulley) with (wear\$3 tear\$3 maintenance)  | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/09/12 19:32 |
| L33 | 18  | ((brak\$3 lock\$3) near10 (shutdown powerdown turnoff ((shut\$4 power\$3 turn\$3) adj (down off)))) with (motor cable pulley) with (wear\$3 tear\$3 maintenance)   | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/09/12 19:32 |
| L34 | 202 | ((haptic force) near2 feedback) and ((brak\$3 lock\$3) near10 (shutdown powerdown turnoff ((shut\$4 power\$3 turn\$3) adj (down off))))  | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/09/12 19:32 |
| L35 | 206 | ((haptic force) near2 feedback) and ((brak\$3 lock\$3) near10 (shutdown powerdown turnoff ((shut\$4 power\$3 turn\$3) adj (remov\$3 down off))))   | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/09/12 19:32 |
| L36 | 31  | ((damag\$3 preserv\$3 maintain\$3 maintenance wear\$3 tear\$3 safe\$3) same ((pulley spool) near10 (brak\$3 lock\$3) near10 (shutdown powerdown turnoff ((shut\$4 power\$3 turn\$3) adj (remov\$3 down off)))) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/09/12 19:32 |
| L37 | 0   | ((power-off adj type) near5 motor)   | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/09/12 19:32 |

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| L38 | 3  | ((haptic force) near2 feedback) and (((brak\$3 lock\$3) near10 (shutdown powerdown turnoff ((shut\$4 power\$3 turn\$3) adj (remov\$3 down off)))) with (pulley spool))  | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/09/12 19:32 |
| L39 | 30 | ((haptic force) near2 feedback) and ((brak\$3 lock\$3) near10 (position location coordinate) near10 (shutdown powerdown turnoff ((shut\$4 power\$3 turn\$3) adj (remov\$3 down off))))                        | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/09/12 19:32 |
| L40 | 40 | ((haptic force) near2 feedback) and ((brak\$3 lock\$3) with (position location coordinate) with (shutdown powerdown turnoff ((shut\$4 power\$3 turn\$3) near2 (remov\$3 down off))))                          | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/09/12 19:32 |
| L41 | 42 | (haptic (force near2 feedback)) and ((brak\$3 lock\$3) with (position location coordinate) with (shutdown powerdown turnoff ((shut\$4 power\$3 turn\$3) near2 (remov\$3 down off))))                          | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/09/12 19:32 |
| L42 | 1  | ("4990815").pn. and ((position near5 lock\$3) isolat\$3)  | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/09/12 19:32 |
| L43 | 59 | (haptic (force near2 feedback)) and (((brak\$3 lock\$3 maintain\$3 keep \$3) near10 (position location coordinate)) with (shutdown powerdown turnoff ((shut\$4 power\$3 turn\$3) near2 (remov\$3 down off)))) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/09/12 19:32 |
| L44 | 24 | L43 not L41   | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/09/12 19:32 |

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| L45 | 60   | ("345"/\$).ccls. and (((brak\$3 lock\$3 maintain \$3 keep\$3) near10 (position location coordinate) with (shutdown powerdown turnoff ((shut\$4 power\$3 turn\$3) near2 (remov\$3 down off))))                               | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/09/12 19:32 |
| L46 | 415  | ((surgery medical surgical) and (((brak\$3 lock\$3 maintain\$3 keep \$3) near10 (position location coordinate) with (shutdown powerdown turnoff ((shut\$4 power\$3 turn\$3) near2 (remov\$3 down off))))                    | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/09/12 19:32 |
| L47 | 2    | ((surgery medical surgical) and (((brak\$3 lock\$3 maintain\$3 keep \$3) near10 (position location coordinate) with (shutdown powerdown turnoff ((shut\$4 power\$3 turn\$3) near2 (remov\$3 down off))) with calibrat \$3)) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/09/12 19:32 |
| L48 | 75   | ((surgery medical surgical) and (((brak\$3 lock\$3 maintain\$3 keep \$3) near10 (position location coordinate) with (shutdown powerdown turnoff ((shut\$4 power\$3 turn\$3) near2 (remov\$3 down off)))) and calibrat \$3)) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/09/12 19:32 |
| L49 | 0    | ("20030097060").pn. and motor   | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/09/12 19:32 |
| L50 | 4486 | ((brak\$3 lock\$3) near10 (position location coordinate) near10 (shutdown powerdown turnoff ((shut\$4 power\$3 turn\$3) adj (remov\$3 down off))))  | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/09/12 19:32 |

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| L51 | 433005 | ((("318") or ("345") or ("463") or ("600") or ("700") or ("703")).CLAS.   | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2010/09/12<br>19:32 |
| L52 | 7      | spidar and haptic   | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2010/09/12<br>19:32 |
| L53 | 533    | L51 and (((brak\$3 lock\$3<br>maintain\$3 keep\$3)<br>near10 (position location<br>coordinate)) with<br>(shutdown powerdown<br>turnoff ((shut\$4 power\$3<br>turn\$3) near2 (remov\$3<br>down off)))) | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2010/09/12<br>19:32 |
| L54 | 315    | L51 and (((brak\$3 lock<br>\$3) near10 (position<br>location coordinate)) with<br>(shutdown powerdown<br>turnoff ((shut\$4 power\$3<br>turn\$3) near2 (remov\$3<br>down off))))                       | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2010/09/12<br>19:32 |
| L55 | 4      | L51 and (((brak\$3 lock<br>\$3) near5 (pulley spool))<br>near10 (shutdown<br>powerdown turnoff ((shut<br>\$4 power\$3 turn\$3)<br>near2 (remov\$3 down<br>off))))                                     | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2010/09/12<br>19:32 |
| L56 | 8      | L51 and (((brak\$3 lock\$3<br>stop\$4 prevent\$3) near5<br>(pulley spool)) near10<br>(shutdown powerdown<br>turnoff ((shut\$4 power\$3<br>turn\$3) near2 (remov\$3<br>down off))))                    | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2010/09/12<br>19:32 |
| L57 | 581    | L51 and (((brak\$3 lock\$3<br>stop\$4 prevent\$3) near5<br>(location position))<br>near10 (shutdown<br>powerdown turnoff ((shut<br>\$4 power\$3 turn\$3)<br>near2 (remov\$3 down<br>off))))           | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2010/09/12<br>19:32 |

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| L58 | 1    | L51 and haptic and (((brak\$3 lock\$3 stop\$4 prevent\$3) near5 (location position)) near10 (shutdown powerdown turnoff ((shut\$4 power\$3 turn\$3) near2 (remov\$3 down off)))) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/09/12 19:32 |
| L59 | 2    | haptic and ((lock\$3 near5 (location position coordinate)) near10 (shutdown powerdown turnoff ((shut\$4 power\$3 turn\$3) near2 (remov\$3 down off))))                           | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/09/12 19:32 |
| L60 | 2    | haptic and ((lock\$3 near5 (location position coordinate)) with (shutdown powerdown turnoff ((shut\$4 power\$3 turn\$3) near2 (remov\$3 down off))))                             | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/09/12 19:32 |
| L61 | 2    | haptic and ((lock\$3 near10 (location position coordinate)) with (shutdown powerdown turnoff ((shut\$4 power\$3 turn\$3) near2 (remov\$3 down off))))                            | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/09/12 19:32 |
| L62 | 1382 | input and ((lock\$3 near10 (location position coordinate)) with (shutdown powerdown turnoff ((shut\$4 power\$3 turn\$3) near2 (remov\$3 down off))))                             | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/09/12 19:32 |
| L63 | 9    | (brak\$3 with lock\$3 with (location position coordinate) with (spool pulley) with (shutdown powerdown turnoff ((shut\$4 power\$3 turn\$3) near2 (remov\$3 down off))))          | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/09/12 19:32 |
| L64 | 7    | (brak\$3 with lock\$3 with motor with (spool pulley) with (shutdown powerdown turnoff ((shut\$4 power\$3 turn\$3) near2 (remov\$3 down off))))                                   | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/09/12 19:32 |

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| L65 | 28 | (brak\$3 with (prevent\$3 stop\$4 lock\$3) with motor with (spool pulley) with (shutdown powerdown turnoff ((shut\$4 power\$3 turn\$3) near2 (remov\$3 down off)))) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON  | 2010/09/12 19:32 |
| L66 | 1  | ("20050024331").pn. and (remote near2 tool)   | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON  | 2010/09/12 19:32 |
| L67 | 2  | ("6104380").PN.   | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2010/09/12 19:32 |
| L68 | 1  | ("20050024331").pn. and (chang\$3 near5 diameter)   | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON  | 2010/09/12 19:32 |
| L69 | 2  | ("5440476").PN.   | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2010/09/12 19:32 |
| L70 | 0  | ("5440476").pn. and pulley and spoo   | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON  | 2010/09/12 19:32 |
| L71 | 1  | ("5440476").pn. and pulley and spool  | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON  | 2010/09/12 19:32 |
| S1  | 14 | brak\$3 with lock\$3 with (shutdown powerdown turnoff ((shut\$4 power\$3 turn\$3) adj (down off))) with (cable pulley)  | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON  | 2010/03/25 13:26 |

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| S2 | 1   | ("345"/\$).ccls. and (brak\$3 same lock\$3 same (shutdown powerdown turnoff ((shut\$4 power\$3 turn\$3) adj (down off))) same (cable pulley motor))   | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON  | 2010/03/25 13:28 |
| S3 | 1   | (haptic) and (brak\$3 same lock\$3 same (shutdown powerdown turnoff ((shut\$4 power\$3 turn\$3) adj (down off))) same (cable pulley motor))   | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON  | 2010/03/25 13:29 |
| S4 | 36  | (haptic) and ((brak\$3 lock\$3) same (shutdown powerdown turnoff ((shut\$4 power\$3 turn\$3) adj (down off))) same (cable pulley motor))  | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON  | 2010/03/25 13:29 |
| S5 | 2   | spidar and pulley and motor and encod\$3 and (cable tension)  | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON  | 2010/03/26 14:06 |
| S6 | 8   | ("7404716").PN.   | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2010/03/26 16:49 |
| S7 | 917 | (dc adj motor) and (motor with (brak\$3 lock\$3) with (shutdown shutoff powerdown poweroff ((shut\$4 power\$4 turn\$4 remov\$3) near2 (off down current voltage))))   | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON  | 2010/03/26 17:03 |
| S8 | 297 | ("20010002126"   "20020030663"   "20020033795"   "20020054060"   "20020072814"   "20020097223"   "20020109668"   "20020128048"   "20020142701"   "20020177471"   "20030025679"   "20030030619"   "20030038776"   "20040233161") | US-PGPUB; USPAT; USOCR                                   | OR | ON  | 2010/03/26 17:04 |

|                         |  |  |  |  |  |  |
|-------------------------|--|--|--|--|--|--|
| "3226846"   "3520060"   |  |  |  |  |  |  |
| "3662076"   "3775865"   |  |  |  |  |  |  |
| "3863098"   "3890958"   |  |  |  |  |  |  |
| "3919691"   "4052981"   |  |  |  |  |  |  |
| "4148014"   "4321047"   |  |  |  |  |  |  |
| "4360345"   "4391282"   |  |  |  |  |  |  |
| "4439162"   "4444205"   |  |  |  |  |  |  |
| "4459113"   "4571834"   |  |  |  |  |  |  |
| "4575297"   "4611998"   |  |  |  |  |  |  |
| "4638798"   "4642055"   |  |  |  |  |  |  |
| "4664130"   "4685464"   |  |  |  |  |  |  |
| "4726772"   "4750487"   |  |  |  |  |  |  |
| "4771344"   "4773865"   |  |  |  |  |  |  |
| "4789340"   "4791934"   |  |  |  |  |  |  |
| "4825872"   "4907973"   |  |  |  |  |  |  |
| "5022407"   "5047942"   |  |  |  |  |  |  |
| "5047952"   "5050608"   |  |  |  |  |  |  |
| "5086401"   "5112228"   |  |  |  |  |  |  |
| "5121747"   "5131844"   |  |  |  |  |  |  |
| "5137458"   "5149270"   |  |  |  |  |  |  |
| "5186629"   "5186695"   |  |  |  |  |  |  |
| "5205289"   "5217003"   |  |  |  |  |  |  |
| "5230623"   "5251127"   |  |  |  |  |  |  |
| "5273038"   "5275174"   |  |  |  |  |  |  |
| "5280265"   "5290276"   |  |  |  |  |  |  |
| "5295694"   "5320537"   |  |  |  |  |  |  |
| "5333106"   "5334017"   |  |  |  |  |  |  |
| "5338198"   "5339723"   |  |  |  |  |  |  |
| "5351692"   "5368487"   |  |  |  |  |  |  |
| "5376007"   "5385474"   |  |  |  |  |  |  |
| "5389849"   "5391081"   |  |  |  |  |  |  |
| "5396895"   "5397323"   |  |  |  |  |  |  |
| "5403191"   "5403192"   |  |  |  |  |  |  |
| "5417210"   "5429140"   |  |  |  |  |  |  |
| "5436542"   "5438529"   |  |  |  |  |  |  |
| "5445166"   "5451924"   |  |  |  |  |  |  |
| "5454722"   "5456341"   |  |  |  |  |  |  |
| "5459382"   "5461711"   |  |  |  |  |  |  |
| "5466213"   "5467763"   |  |  |  |  |  |  |
| "5480307"   "5482472"   |  |  |  |  |  |  |
| "5483961"   "5509810"   |  |  |  |  |  |  |
| "5510832"   "5513992"   |  |  |  |  |  |  |
| "5518406"   "5546943"   |  |  |  |  |  |  |
| "5576727"   "5592401"   |  |  |  |  |  |  |
| "5593306"   "5598269"   |  |  |  |  |  |  |
| "5609485"   "5609560"   |  |  |  |  |  |  |
| "5623582"   "5628230"   |  |  |  |  |  |  |
| "5629594"   "5667517"   |  |  |  |  |  |  |
| "5669818"   "5676157"   |  |  |  |  |  |  |
| "5691898"   "5701140"   |  |  |  |  |  |  |
| "5704791"   "5709219"   |  |  |  |  |  |  |
| "5711746"   "5720742"   |  |  |  |  |  |  |
| "5721566"   "5722836"). |  |  |  |  |  |  |
| PN. OR ("5724264"       |  |  |  |  |  |  |
| "5731804"   "5734373"   |  |  |  |  |  |  |
| "5739811"   "5742278"   |  |  |  |  |  |  |
| "5755577"   "5766016"   |  |  |  |  |  |  |

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|-----------|-----------|
| "5767839" | "5769640" |
| "5779209" | "5791908" |
| "5800177" | "5800178" |
| "5800179" | "5805140" |
| "5808665" | "5817107" |
| "5821920" | "5825308" |
| "5828197" | "5841423" |
| "5853292" | "5855583" |
| "5857986" | "5871017" |
| "5873731" | "5873732" |
| "5880714" | "5882206" |
| "5882207" | "5889670" |
| "5907487" | "5909380" |
| "5928138" | "5929607" |
| "5929846" | "5930741" |
| "5945056" | "5950629" |
| "5951301" | "5952806" |
| "5954692" | "5956484" |
| "5957694" | "5959613" |
| "5967790" | "5967980" |
| "5971767" | "5971976" |
| "5973678" | "5999168" |
| "6001014" | "6006127" |
| "6007342" | "6020875" |
| "6020876" | "6024576" |
| "6028593" | "6037927" |
| "6038488" | "6042555" |
| "6046726" | "6046727" |
| "6050718" | "6050962" |
| "6057828" | "6059506" |
| "6061004" | "6062865" |
| "6067077" | "6074213" |
| "6077082" | "6078308" |
| "6078876" | "6086528" |
| "6088017" | "6088019" |
| "6088020" | "6100874" |
| "6101530" | "6104158" |
| "6104379" | "6104382" |
| "6106301" | "6110130" |
| "6111577" | "6113395" |
| "6125337" | "6125385" |
| "6126450" | "6128006" |
| "6131097" | "6134506" |
| "6147674" | "6148280" |
| "6154198" | "6154201" |
| "6161126" | "6162190" |
| "6166723" | "6169540" |
| "6184868" | "6191774" |
| "6193519" | "6193653" |
| "6195592" | "6211861" |
| "6215470" | "6216059" |
| "6219032" | "6219034" |
| "6223100" | "6232891" |
| "6243078" | "6246390" |
| "6252579" | "6252583" |
| "6256011" | "6271828" |
| "6271833" | "6275213" |

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|-----|-----|---|--|----|----|------------------|
|     |     | "6278439"   "6283859"   "6285351"   "6288705"). PN. OR ("6292170"   "6292174"   "6300936"   "6300937"   "6300938"   "6310605"   "6317116"   "6323837"   "6348911"   "6353427"   "6366272"   "6374255"   "6375471"   "6377011"   "6411276"   "6413229"   "6424333"   "6424356"   "6428490"   "6429846"   "6448977"   "6469692"   "6469695"   "6486872"   "6525711"   "6620174"   "6636197"   "6639581"   "6654000"   "6686901"   "6686911"   "6693626"   "6697043"   "6697044"   "6697748"   "6704001"   "6705871"   "6707443"   "6717573"   "6758843"   "6859819"   "6876891"   "6894678"   "6939138"   "7056123"   "D233238"   "D272833"   "D392878"). PN. OR ("7404716"). URPN. |  |    |    |                  |
| S9  | 205 | S8 and (cable string wire)  | US-PGPUB; USPAT; USOCR                                   | OR | ON | 2010/03/26 17:09 |
| S10 | 46  | S8 and ((cable string wire) near5 (tension force))  | US-PGPUB; USPAT; USOCR                                   | OR | ON | 2010/03/26 17:09 |
| S11 | 1   | ((cable wire string) with haptic) and (dc adj motor) and (motor with (brak\$3 lock\$3) with (shutdown shutoff powerdown poweroff ((shut\$4 power\$4 turn\$4 remov\$3) near2 (off down current voltage))))   | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/03/26 17:19 |
| S12 | 55  | ((cable wir\$3 string rop \$3) with haptic) and (motor with (brak\$3 lock \$3))   | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/03/26 17:21 |
| S13 | 40  | ((cable wir\$3 string rop \$3) with haptic) and (motor with (brak\$3 lock \$3) with (power\$4 us \$3))  | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/03/26 17:40 |

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| S14 | 1    | ((cable wir\$3 string rop \$3) with haptic) and ((lock\$3 prevent\$3 stop \$4 brak\$4) with (spool pulley) with (off inactiv\$3 ((shut\$4 power\$3 turn \$3) near2 (off down remov\$3)))) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON  | 2010/03/26 17:44 |
| S15 | 6973 | ((lock\$3 prevent\$3 stop \$4 brak\$4) with (spool pulley) with (off inactiv\$3 ((shut\$4 power\$3 turn \$3) near2 (off down remov\$3))))   | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON  | 2010/03/26 17:45 |
| S16 | 8    | haptic and ((lock\$3 prevent\$3 stop\$4 brak \$4) with (spool pulley) with (off inactiv\$3 ((shut \$4 power\$3 turn\$3) near2 (off down remov \$3))))                                     | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON  | 2010/03/26 17:47 |
| S17 | 323  | ((lock\$3 prevent\$3 stop \$4 brak\$4) near5 (spool pulley)) near10 ((shut\$4 power\$3 turn\$3) near2 (off down remov\$3))  | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON  | 2010/03/26 17:50 |
| S18 | 0    | S17 and (haptic (force adj feedback))   | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON  | 2010/03/26 18:00 |
| S19 | 2    | ("20090308676").PN.   | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2010/03/26 18:07 |
| S20 | 0    | ((lock\$3 near5 (spool pulley)) near10 (prevent \$3 maintain\$3) near10 (wear tear damage) near10 (inactive ("not" near2 us\$3)))   | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON  | 2010/03/26 18:12 |
| S21 | 0    | ((lock\$3 near5 (spool pulley)) near10 (prevent \$3 maintain\$3) near10 (wear\$3 tear\$3 damag \$3) near10 (inactive ("not" near2 us\$3)))  | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON  | 2010/03/26 18:12 |

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| S22 | 0   | (lock\$3 near5 (spool pulley)) with (prevent\$3 maintain\$3) with (wear \$3 tear\$3 damag\$3) with (inactive ("not" near2 us \$3))                               | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/03/26 18:15 |
| S23 | 3   | (lock\$3 near5 (spool pulley)) same (prevent\$3 maintain\$3) same (wear \$3 tear\$3 damag\$3) same (inactive ("not" near2 us\$3))                                | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/03/26 18:16 |
| S24 | 291 | brak\$3 with lock\$3 with (shutdown powerdown turnoff ((shut\$4 power\$3 turn\$3) adj (down off))) with (motor cable pulley)                                     | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/03/27 11:19 |
| S25 | 0   | brak\$3 with lock\$3 with (shutdown powerdown turnoff ((shut\$4 power\$3 turn\$3) adj (down off))) with (motor cable pulley) with (wear\$3 tear\$3 maintenance)  | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/03/27 11:22 |
| S26 | 17  | ((brak\$3 lock\$3) near10 (shutdown powerdown turnoff ((shut\$4 power\$3 turn\$3) adj (down off)))) with (motor cable pulley) with (wear\$3 tear\$3 maintenance) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/03/27 11:23 |
| S27 | 193 | ((haptic force) near2 feedback) and ((brak\$3 lock\$3) near10 (shutdown powerdown turnoff ((shut\$4 power\$3 turn\$3) adj (down off))))                          | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/03/27 11:25 |
| S28 | 195 | ((haptic force) near2 feedback) and ((brak\$3 lock\$3) near10 (shutdown powerdown turnoff ((shut\$4 power\$3 turn\$3) adj (remov\$3 down off))))                 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/03/27 11:25 |

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| S29 | 31 | (damag\$3 preserv\$3 maintain\$3 maintenance wear\$3 tear\$3 safe\$3) same ((pulley spool) near10 (brak\$3 lock\$3) near10 (shutdown powerdown turnoff ((shut\$4 power\$3 turn\$3) adj (remov\$3 down off)))) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/03/27 11:45 |
| S30 | 0  | ((power-off adj type) near5 motor)  | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/03/27 11:54 |
| S31 | 1  | ((haptic force) near2 feedback) and (((brak\$3 lock\$3) near10 (shutdown powerdown turnoff ((shut\$4 power\$3 turn\$3) adj (remov\$3 down off)))) with (pulley spool))  | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/03/27 11:57 |
| S32 | 29 | ((haptic force) near2 feedback) and ((brak\$3 lock\$3) near10 (position location coordinate) near10 (shutdown powerdown turnoff ((shut\$4 power\$3 turn\$3) adj (remov\$3 down off))))                        | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/03/27 11:58 |
| S33 | 39 | ((haptic force) near2 feedback) and ((brak\$3 lock\$3) with (position location coordinate) with (shutdown powerdown turnoff ((shut\$4 power\$3 turn\$3) near2 (remov\$3 down off))))                          | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/03/27 12:01 |
| S34 | 41 | ((haptic (force near2 feedback)) and ((brak\$3 lock\$3) with (position location coordinate) with (shutdown powerdown turnoff ((shut\$4 power\$3 turn\$3) near2 (remov\$3 down off))))                         | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/03/27 12:01 |
| S35 | 1  | ("4990815").pn. and ((position near5 lock\$3) isolat\$3)  | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/03/27 12:07 |

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| S36 | 58  | (haptic (force near2 feedback)) and (((brak\$3 lock\$3 maintain\$3 keep \$3) near10 (position location coordinate)) with (shutdown powerdown turnoff ((shut\$4 power\$3 turn\$3) near2 (remov\$3 down off))))              | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/03/27 12:21 |
| S37 | 24  | S36 not S34  | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/03/27 12:21 |
| S38 | 58  | ("345"/\$).ccls. and (((brak\$3 lock\$3 maintain \$3 keep\$3) near10 (position location coordinate)) with (shutdown powerdown turnoff ((shut\$4 power\$3 turn\$3) near2 (remov\$3 down off))))                             | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/03/27 12:26 |
| S39 | 396 | (surgery medical surgical) and (((brak\$3 lock\$3 maintain\$3 keep \$3) near10 (position location coordinate)) with (shutdown powerdown turnoff ((shut\$4 power\$3 turn\$3) near2 (remov\$3 down off))))                   | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/03/27 12:28 |
| S40 | 2   | (surgery medical surgical) and (((brak\$3 lock\$3 maintain\$3 keep \$3) near10 (position location coordinate)) with (shutdown powerdown turnoff ((shut\$4 power\$3 turn\$3) near2 (remov\$3 down off))) with calibrat \$3) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/03/27 12:28 |
| S41 | 71  | (surgery medical surgical) and (((brak\$3 lock\$3 maintain\$3 keep \$3) near10 (position location coordinate)) with (shutdown powerdown turnoff ((shut\$4 power\$3 turn\$3) near2 (remov\$3 down off))) and calibrat \$3   | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/03/27 12:28 |

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| S42 | 0      | ("20030097060").pn. and motor  | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2010/03/27<br>12:38 |
| S43 | 4412   | ((brak\$3 lock\$3) near10 (position location coordinate) near10 (shutdown powerdown turnoff ((shut\$4 power\$3 turn\$3) adj (remov\$3 down off))))                             | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2010/03/27<br>12:40 |
| S44 | 416553 | (("318") or ("345") or ("463") or ("600") or ("700") or ("703")).CLAS.   | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2010/03/27<br>12:42 |
| S45 | 7      | spidar and haptic  | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2010/03/27<br>12:43 |
| S46 | 517    | S44 and ((brak\$3 lock\$3 maintain\$3 keep\$3) near10 (position location coordinate) with (shutdown powerdown turnoff ((shut\$4 power\$3 turn\$3) near2 (remov\$3 down off)))) | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2010/03/27<br>12:44 |
| S47 | 309    | S44 and ((brak\$3 lock \$3) near10 (position location coordinate) with (shutdown powerdown turnoff ((shut\$4 power\$3 turn\$3) near2 (remov\$3 down off))))                    | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2010/03/27<br>12:44 |
| S48 | 4      | S44 and (((brak\$3 lock \$3) near5 (pulley spool)) near10 (shutdown powerdown turnoff ((shut\$4 power\$3 turn\$3) near2 (remov\$3 down off))))                                 | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2010/03/27<br>12:51 |

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| S49 | 8    | S44 and (((brak\$3 lock\$3 stop\$4 prevent\$3) near5 (pulley spool)) near10 (shutdown powerdown turnoff ((shut\$4 power\$3 turn\$3) near2 (remov\$3 down off))))                 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/03/27 12:55 |
| S50 | 567  | S44 and (((brak\$3 lock\$3 stop\$4 prevent\$3) near5 (location position)) near10 (shutdown powerdown turnoff ((shut\$4 power\$3 turn\$3) near2 (remov\$3 down off))))            | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/03/27 12:57 |
| S51 | 1    | S44 and haptic and (((brak\$3 lock\$3 stop\$4 prevent\$3) near5 (location position)) near10 (shutdown powerdown turnoff ((shut\$4 power\$3 turn\$3) near2 (remov\$3 down off)))) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/03/27 12:57 |
| S52 | 2    | haptic and ((lock\$3 near5 (location position coordinate)) near10 (shutdown powerdown turnoff ((shut\$4 power\$3 turn\$3) near2 (remov\$3 down off))))                           | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/03/27 13:00 |
| S53 | 2    | haptic and ((lock\$3 near5 (location position coordinate)) with (shutdown powerdown turnoff ((shut\$4 power\$3 turn\$3) near2 (remov\$3 down off))))                             | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/03/27 13:01 |
| S54 | 2    | haptic and ((lock\$3 near10 (location position coordinate)) with (shutdown powerdown turnoff ((shut\$4 power\$3 turn\$3) near2 (remov\$3 down off))))                            | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/03/27 13:01 |
| S55 | 1350 | input and ((lock\$3 near10 (location position coordinate)) with (shutdown powerdown turnoff ((shut\$4 power\$3 turn\$3) near2 (remov\$3 down off))))                             | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/03/27 13:01 |

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| S56 | 9  | (brak\$3 with lock\$3 with (location position coordinate) with (spool pulley) with (shutdown powerdown turnoff ((shut \$4 power\$3 turn\$3) near2 (remov\$3 down off)))) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON  | 2010/03/27 13:05 |
| S57 | 7  | (brak\$3 with lock\$3 with (motor with (spool pulley) with (shutdown powerdown turnoff ((shut \$4 power\$3 turn\$3) near2 (remov\$3 down off))))                         | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON  | 2010/03/27 13:06 |
| S58 | 27 | (brak\$3 with (prevent\$3 stop\$4 lock\$3) with (motor with (spool pulley) with (shutdown powerdown turnoff ((shut \$4 power\$3 turn\$3) near2 (remov\$3 down off))))    | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON  | 2010/03/27 13:06 |
| S59 | 1  | ("20050024331").pn. and (remote near2 tool)  | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON  | 2010/03/27 13:27 |
| S60 | 2  | ("6104380").PN.  | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2010/03/27 13:34 |
| S61 | 1  | ("20050024331").pn. and (chang\$3 near5 diameter)  | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON  | 2010/03/27 13:41 |
| S62 | 2  | ("5440476").PN.  | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2010/03/27 13:43 |
| S63 | 0  | ("5440476").pn. and pulley and spoo  | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON  | 2010/03/27 14:51 |

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| S64 | 1 | ("5440476").pn. and pulley and spool | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2010/03/27<br>14:51 |
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